

## INTERNATIONAL SEARCH REPORT

Inte - al Application No  
PCT/EP2005/050275A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C07D405/12 C07D409/12 C07D311/58 A61K31/352

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 480 257 A (SQUIBB & SONS INC) 15 April 1992 (1992-04-15) page 2, lines 1-31 page 16, line 12 - page 17, line 3; claim 10 -----	1-16
X	EP 0 489 404 A (SQUIBB & SONS INC) 10 June 1992 (1992-06-10) page 2, lines 1-44 page 16, line 20 - page 17, line 7; claim 3 -----	1-16
Y	ATWAL, KARNAIL S. ET AL: "Cardioselective anti-ischemic ATP-sensitive potassium channel openers" JOURNAL OF MEDICINAL CHEMISTRY ( 1993 ), 36(24), 3971-4, 1993, XP001180874 page 3972; table I -----	1-16
-/-		

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
- 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

- 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- '8' document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

31 March 2005

11/04/2005

Name and mailing address of the ISA  
European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Samsam Bakhtiary, M

## INTERNATIONAL SEARCH REPORT

Inte - Int'l Application No  
PCT/EP2005/050275

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	ATWAL, KARNAIL S. ET AL: "Cardioselective Antiischemic ATP-Sensitive Potassium Channel Openers. 2. Structure-Activity Studies on Benzopyranylcyanoguanidines; Modification of the Benzopyran Ring" JOURNAL OF MEDICINAL CHEMISTRY ( 1995 ), 38(11), 1966-73, 1995, XP002278353 abstract page 1967; table 1 -----	1-16
A	BURRELL, GORDON ET AL: "Benzopyran potassium channel activators related to cromakalim - amide replacements at position 4" BIOORGANIC & MEDICINAL CHEMISTRY LETTERS ( 1993 ), 3(6), 999-1002, 1993, XP001180869 abstract page 1000 compound 15 -----	1-16
A	ASHWOOD, VALERIE A. ET AL: "Synthesis and antihypertensive activity of pyran oxygen and amide nitroge replacement analogs of the potassium channel activato cromakalim" JOURNAL OF MEDICINAL CHEMISTRY ( 1991 ), 34(11), 3261-7, 1991, XP002034759 abstract page 3263; table I -----	1-16
A	ATWAL, KARNAIL S. ET AL: "Cardioselective Anti-Ischemic ATP-Sensitive Potassium Channel Openers. 3. Structure-Activity Studies on Benzopyranyl Cyanoguanidines; Modification of the Cyanoguanidine Portion" JOURNAL OF MEDICINAL CHEMISTRY ( 1995 ), 38(17), 3236-45, 1995, XP009030005 abstract page 3239; table 1 -----	1-16

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

Inte	ntl Application No
PCT/EP2005/050275	

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 0480257	A 15-04-1992	US CA EP JP JP JP	5643921 A 2051261 A1 0480257 A2 5070347 A 2622442 B2 5294847 A	01-07-1997 27-03-1992 15-04-1992 23-03-1993 18-06-1997 09-11-1993
EP 0489404	A 10-06-1992	AU CA EP HU IE JP PT ZA	8827791 A 2055376 A1 0489404 A2 59822 A2 914065 A1 4290826 A 99691 A 9108999 A	11-06-1992 06-06-1992 10-06-1992 28-07-1992 17-06-1992 15-10-1992 30-04-1993 26-08-1992